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JCO4 Rec'd PCT/PTO 0 9 APR 2001
09/807260

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
EO/US

International Application No.
International Filing Date:

PCT/EP99/07489
October 6, 1999



Priority Application:
Priority Date:

GB 9822100.5
October 9, 1998

Applicant(s) for EO/US:

Stefan LINDGREN et al.

Title of Invention:

TELECOMMUNICATIONS TERMINALS

Box DO/EO/US
Assistant Commissioner for Patents
Washington, D.C. 20231

CERTIFICATE OF MAILING BY EXPRESS MAIL

"EXPRESS MAIL" Mailing Label No.: EL487170284US
Date of Deposit: April 9, 2001

I hereby certify that this paper, including the documents referred to therein, or fee is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR § 1.10 on the date indicated above and is addressed to the:

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Type or Print Name Sara J. Morrison

Signature *Sara J. Morrison*

Madam or Sir:

REQUEST FOR PCT NATIONAL ENTRY IN THE US
UNDER 35 U.S.C. § 371 AND 37 CFR § 1.495

This is an express request to begin national examination procedures of International Application Number PCT/EP99/07489 under 35 U.S.C. § 371 and 37 CFR § 1.495 in the United States Patent and Trademark Office.

1. ☒ Enclosed are 5 pages of the specification, 2 pages of claims, and 1 page containing the abstract of International Application No. PCT/EP99/07489 as published.
2. ☒ One sheet of formal drawings is enclosed.

PATENT

DOCKET NO.
29206-00034

3. ☒ The name(s), mailing address(es) and citizenship of the inventor(s) for this national application are not known to have changed since the publication of the International Application, and specifically are last known to be as follows:

Inventor	Name	Address	Country of Citizenship
(1)	Stefan LINDGREN	Brännkyrkagatan 42 S-118 22 STOCKHOLM Sweden	Sweden
(2)	Mattias WULFF	c/o Elfvin, Kammakargatan 25 S-111 60 STOCKHOLM Sweden	Sweden
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(4)	K-G LUNDQUIST	Sportvägen 7 S-187 35 TÄBY Sweden	Sweden
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4. ☒ The International Bureau confirmed that it had received a certified copy of priority application GB 9822100.5 as filed on October 9, 1998 during the international stage of this PCT application by mailing Form PCT/IB/304 to the Applicant(s) indicating such.
5. ☒ A proper Demand for International Preliminary Examination of the international application was made by the 19th month from the earliest claimed priority date. The United States was elected in the Demand. The International Bureau reported to the Applicant(s) that it had notified the EO/US in accordance with PCT Article 31(7) of its election for Chapter II proceedings.

PATENT

DOCKET NO.
29206-00034

16. ☒ In determining the Basic Fee, the following aspects of the progression of the PCT application were considered:

Searching Authority	European Patent Office
Examining Authority	European Patent Office.

17. ☒ The filing fee is calculated by adding the appropriate Basic Fee to the fees for the number and types of claims presented for national entry under 37 CFR § 1.492, specifically:

FOR	NUMBER	NUMBER EXTRA	RATE	CALCULATION
TOTAL CLAIMS	6 -20=	-14	x \$ 18.00 =	\$ 0
INDEPENDENT CLAIMS	2 -3=	-1	x \$ 80.00 =	\$ 0
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			x \$ 270 =	\$ 270
			BASIC FEE	\$ 1000
			TOTAL OF ABOVE CALCULATIONS =	\$ 1270
REDUCTION BY ½ FOR FILING BY SMALL ENTITY OR INDEPENDENT INVENTOR (Note 37 C.F.R. §§ 1.9, 1.27, 1.28)				0
			Total =	\$ 1270

18. ☒ A check in the amount of \$1270.00 for the application fee is enclosed.
19. ☒ The Commissioner is hereby authorized to charge fees under 37 C.F.R. §1.492 or any other fees associated with the national entry of this application which may be required, or credit any overpayment to Deposit Account No. 10-0447 of JENKENS & GILCHRIST, P.C. The reference number of 29206-00034 should be included in any deposit account transactions. A duplicate copy of this sheet is enclosed.

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PATENT

DOCKET NO.
29206-00034

6. ☐ Combined Declaration and Power of Attorney signed by the inventor(s).
7. ☐ An Information Disclosure Statement Under 37 CFR § 1.97(b) is enclosed, along with Form PTO-1449 and a copy of each reference identified on Form PTO-1449.
8. ☐ A Preliminary Amendment is enclosed.
9. ☒ The International Application was filed and examined in the English language.
10. ☐ A translation of the International Application into English (35 U.S.C. § 371(c)(2)) is enclosed.
11. ☐ A translation of the amendment(s) to the International Application under PCT Article 19 into English (35 U.S.C. § 371(c)(3)) is(are) enclosed.
12. ☐ A translation of the annex(es) to the International Preliminary Examination Report made under PCT Article 36 into English (35 U.S.C. § 371(c)(5)) is(are) enclosed.
13. ☐ Translation(s) of the following additional PCT documents is/are enclosed:
14. ☐ A Petition to Make Special For New Application Under MPEP § 708.02, VIII is enclosed, along with Form PTO-1449, and a copy of each reference identified on Form PTO-1449.
15. ☐ This entity and/or independent inventor qualifies for small entity status under 37 CFR § 1.9(f) and/or § 1.27(b). The following supportive documentation reflecting such is attached:

PATENT

DOCKET NO.
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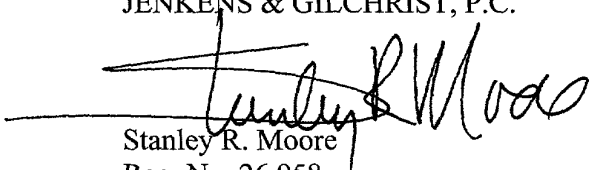
20. ☒ Address all future communications to:

Stan R. Moore, Esq.
JENKENS & GILCHRIST, P.C.
1445 Ross Avenue, Suite 3200
Dallas, Texas 75202-2799.

21. ☒ Also enclosed:

1. Certificate of Express Mailing No. EL487170284US;
2. Copy of the International Preliminary Examination Report with Amended Sheets; and
3. Confirmation Postcard.

Respectfully submitted,
JENKENS & GILCHRIST, P.C.


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JC02 Rec'd PCT/PTO 09 APR 2001

TELECOMMUNICATIONS TERMINALS

The present invention relates to telecommunications terminals. In particular, the invention relates to a structure for a telecommunications terminal which allows the same structure to be used for terminals having different functionalities.

DESCRIPTION OF THE RELATED ART

A typical fixed radio telecommunications terminal may have a radio transceiver, a radio system interface, a user interface, including a keypad, a microphone and a loudspeaker, and connecting logic units.

One previously considered way of reducing cost in such devices has been to integrate as much functionality as possible into one semiconductor integrated circuit. Such devices can then be manufactured efficiently in large numbers.

However, such a technique is not well-suited to an environment in which customers demand a large variety of functionality. It then becomes difficult to design low-cost solutions that can provide all the required services and functions. For example there are problems combining different techniques such as GSM and DECT (Digital Enhanced Cordless telephony) in one unit. It may be necessary to provide a range of integrated circuits, which can, between them, provide the required range of functions, with the result that the time and cost associated with the design of each integrated circuit are used less efficiently.

SUMMARY OF THE PRESENT INVENTION

The present invention seeks to provide a structure which can be used to offer telecommunications terminals having a range of functionality. More specifically, the invention provides a modular structure for a

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telecommunications device.

Embodiments of the invention may provide a telecommunications device having a bus, to which different modules may be connected as desired.

5 According to one specific embodiment of the present invention there is provided a telecommunications terminal comprising a communications bus, a radio module which is connected to the communications bus and which is operable to receive and
10 transmit radio telecommunications signals and transmit radio telecommunications signals, and a plurality of connection modules which are connected to the communications bus in parallel to one another and to
15 the radio module and which are operable to connect the terminal to respective telecommunications networks, the radio module also being operable to communicate with at least one of the connection modules via the communications bus.

BRIEF DESCRIPTION OF THE DRAWINGS

20 Figure 1 is a schematic diagram illustrating the structure of a telecommunications terminal in accordance with an embodiment of the present invention.

DETAILED DESCRIPTION OF THE DRAWINGS

25 Figure 1 shows the architecture of a telecommunications terminal 2 embodying the present invention. The terminal 2 includes a communications bus 21, a radio module 22, a line connection module 23, and a control module 24. Also connected to the bus 21 is a man-machine interface 25. The radio module 22,
30 the line module 23, and the control module 24 are connected in parallel to, and communicate with one another via, the communications bus 21.

The communications bus is a standard open communications bus. For example, the bus could be the

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universal standard bus (USB) and can provide a highly flexible base for carrying both data and telephony information between the modules in the terminals.

5 The radio module 22 contains the air interface function for interfacing with the desired radio telecommunications network. Specifically, the radio module 22 has a connection to an antenna 221, transceiver circuits 222, associated control logic 223 in the form of hardware and/or software, and an
10 interface 224 to the communications bus. The radio system could for example relate to a digital enhanced cordless telephony system such as DECT, CT2, or CT3. Thus, the transceiver circuits 222, under the control of the logic circuits 223, converts signals received
15 from the bus 21 into a form suitable for transmission over the air interface, and vice versa.

The line module 23 includes the relevant functionality required to connect to fixed telecommunication systems, namely an interface circuit
20 231, together with a bus interface device 232 and connecting logic 233 in hardware and/or software. The telecommunication system supported by the module could for example be an integrated services digital network. Thus, the interface circuit 231, under the control of
25 the logic circuits 233, converts signals received from the bus 21 into a format suitable for transmission over the fixed network, and vice versa.

Overall control terminal of the terminal resides in the control module 24, which includes a bus
30 interface 241 and a processor 242 with appropriate associated memory devices.

The man-machine interface 25 also includes a bus interface 251, but is otherwise generally conventional, in that it includes a keypad 252 for receiving data

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input by a user, a microphone 253 for receiving speech from a user, and a loudspeaker 254 for providing audio outputs to a user, all under the control of a control circuit 255.

5 Importantly, in accordance with the invention, the radio module 22, and line connection module 23 are removable and replaceable. Moreover, the bus has connections 26, 27, etc. for other radio modules and line connection modules providing different
10 functionality.

For example, other line connection modules might provide a connection to a plain old telephony system (POTS), or an ethernet connection to a LAN.

Other radio modules might provide a connection to
15 a personal handyphone system (PHS) a digital advanced mobile phone system (D-AMPS), a wide band CDMA system (W-CDMA) or the Qualcomm CDMA system (IS-95).

In addition, other modules can easily be devised for connection to the connections 26, 27 of the
20 terminal 2, such as an uplink module for cable TV, a CCTV surveillance system or other such devices.

Thus an embodiment of the present invention splits the functionality of the terminal into stand alone modules which are interconnected by the standard bus.

25 In this way, the user is able to obtain a telecommunications terminal which provides the functionality which he requires. For example, if it is necessary for the user to be able to transmit signals received in a CCTV surveillance system, and to be able
30 to transmit them either over a LAN and or over a GSM mobile telephone network, the terminal can be provided with the necessary modules to allow these options.

The architecture of the present invention can provide a low cost hardware solution to the problem of

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supplying devices with such a wide range of functionality because it can make use of high volume standard components which are able to be used with many different functional devices.

5 The structure of the present invention has several clear benefits over the prior art devices. Terminals in accordance with the invention can provide clear interfaces between different services and functions, which can allow short lead times when developing new
10 functionality, and can support parallel development projects, because it is only necessary to consider the new functionality in isolation, rather than having to consider its impact on other features of the device, as would be necessary in an integrated device. In
15 addition, such a terminal can reuse old functionality and integrate many different systems into a single terminal. Moreover, the user can add new modules and features as required, making it easy to expand the functionality of such a system.

20 There is thus provided a telecommunications terminal having a structure which allows the manufacturer to provide a range of products having features chosen by the user, while allowing the user to update the terminal when required.

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CLAIMS

1. A telecommunications terminal comprising a communications bus, a radio module which is connected to the communications bus and which is operable to receive and to transmit radio telephone communications signals, and at least one connection module which is connected to the communications bus in parallel to the radio module and which is operable to connect the terminal to a fixed telecommunications network, the radio module also being operable to communicate with the connection module via the communications bus.

2. A terminal as claimed in claim 1, comprising a plurality of such radio modules which are operable to communicate with respective radio telecommunications networks, and which are connected into the communications bus in parallel to one other and to the connection module.

3. A terminal as claimed in claim 1 or 2, comprising a plurality of such connection modules which are operable to communicate with respective fixed telecommunications networks, and which are connected into the communications bus in parallel to one other and to the connection module.

4. A radio communications terminal, comprising:
an open standard bus;
a radio modem, including:
air interface functionality;
logic; and
an interface to the open standard bus; and
at least one stand-alone module, providing a communications function, and having an interface to the open standard bus.

5. A terminal as claimed in claim 4, comprising means for connection of at least one additional stand-

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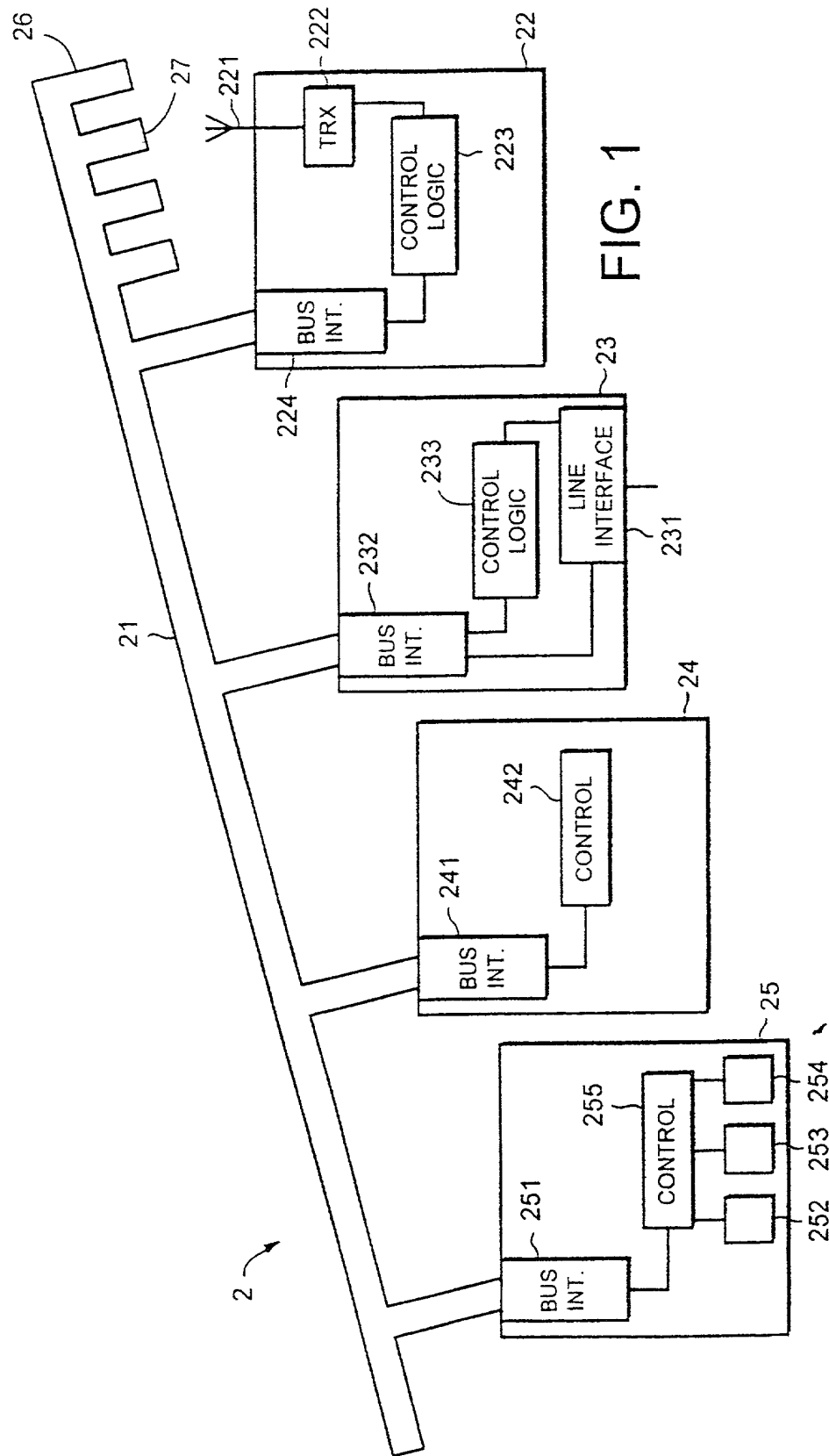
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alone module to the open standard bus.

6. A terminal as claimed in claim 4 or 5,
wherein the open standard bus is a Universal Serial
Bus.

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PATENT APPLICATION

**RULES 63 AND 67 (37 C.F.R. 1.63 and 1.67)
DECLARATION AND POWER OF ATTORNEY**

FOR UTILITY/DESIGN/CIP/PCT NATIONAL APPLICATIONS

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: TELECOMMUNICATIONS TERMINALS, the specification of which: (mark only one)

- ☒ (a) is attached hereto.
☐ (b) was filed on 9th April 2001 as Application Serial No 09/807260 and was amended on _____ (if applicable)
☐ (c) was filed as PCT International Application No. PCT/ on _____ and was amended on _____ (if applicable).
☐ (d) was filed on _____ as Application Serial No. _____ and was issued a Notice of Allowance on _____.
☐ (e) was filed on _____ and bearing attorney docket number _____

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended by any amendment referred to above or as allowed as indicated above.

I acknowledge the duty to disclose all information known to me to be material to the patentability of this application as defined in 37 CFR § 1.56. If this is a continuation-in-part (CIP) application, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability of the application as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this CIP application.

I hereby claim foreign priority benefits under 35 U.S.C. § 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate filed by me or my assignee disclosing the subject matter claimed in this application and having a filing date (1) before that of the application on which my priority is claimed or, (2) if no priority is claimed, before the filing date of this application:

PRIOR FOREIGN PATENTS

Number	Country	Month/Day/Year Filed	Date first laid-open or Published	Date patented or Granted	Priority Claimed	
					Yes	No
9822100.5	Great Britain	9 October 1998			X	

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I hereby claim the benefit under 35 U.S.C. § 120/365 of any United States application(s) listed below and PCT international applications listed above or below:

PRIOR U.S. OR PCT APPLICATIONS

<u>Application No. (series code/serial no.)</u>	<u>Month/Day/Year Filed</u>	<u>Status(pending, abandoned, patented)</u>
PCT/EP99/07489	6 October 1999	

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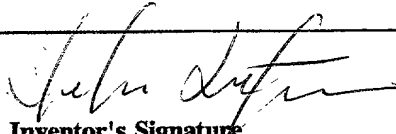
all of the firm of JENKENS & GILCHRIST, P.C., 3200 Fountain Place, 1445 Ross Avenue, Dallas, Texas 75202-2799, as my attorneys and/or agents, with full power of substitution and revocation, to prosecute this application, provisionals thereof, continuations, continuations-in-part, divisionals, appeals, reissues, substitutions, and extensions thereof and to transact all business in the United States Patent and Trademark Office connected therewith, to appoint any individuals under an associate power of attorney and to file and prosecute any international patent application filed thereon before any international authorities, and I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization who/which first sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct them in writing to the contrary.

Please address all correspondence and direct all telephone calls to:

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAMED INVENTOR(S)

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAMED INVENTOR(S)

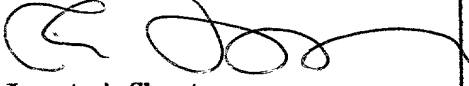
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